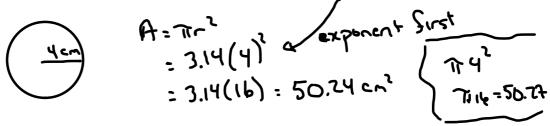


Lesson # 33 ~ Area of a Disc

The formula for calculating the area of a disc from the radius is:

$$A = \pi r^2$$

Find the area, if the radius is 4cm. ***** don't forget BEDMAS



Find the area, if the diameter is 7.2cm.

Find the radius if the area is 113.04cm².

$$A = \pi r^{2}$$

$$113.04 = \pi r^{2}$$

$$0 \int \frac{1(3.04)}{3.14} = r$$

$$113.04 = 314r^{2}$$

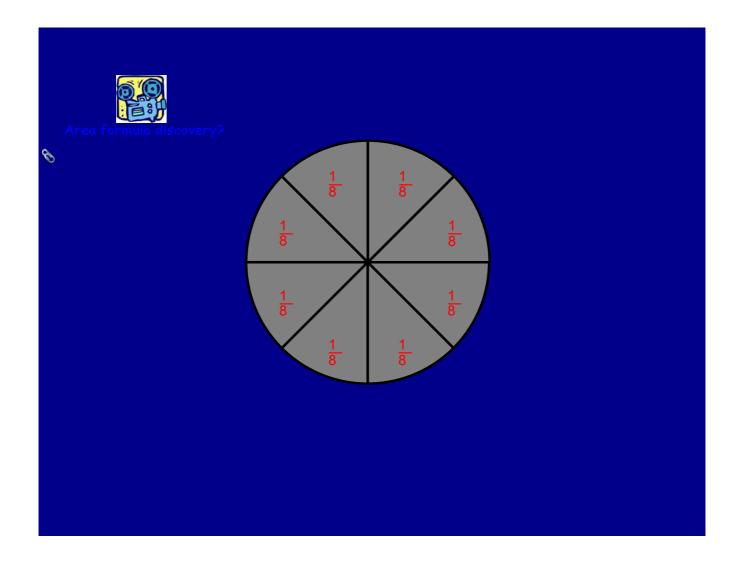
$$3.14$$

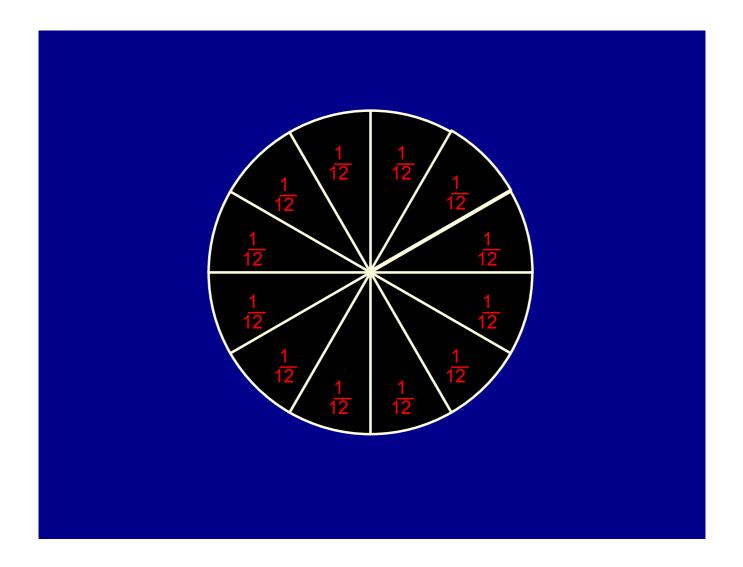
$$3.14$$

$$3.14$$

$$5 = r$$

$$6 = r$$





QUIZ: Ceramic Tile Tabletop

(.33

Name:

A local craftsman is making a circular tabletop that is going to be covered with square ceramic tiles measuring 1 cm² each. Five thousand tiles will be used to cover the entire table.

The craftsman would like to make a strip of tiles from one edge of the table to the other, passing through the center point. This strip will be in white ceramic tiles, while the rest of the table will be in black tiles.

How many white tiles will be needed to make this strip?



A table handmade in Marrakesh, Morocco. The craftsman is making a table similar to this one.

C2: Reasoning									
á.	5	4	3	2	1				
cr3: Reasoning									
cr2: Concepts									
cr4: Organization									

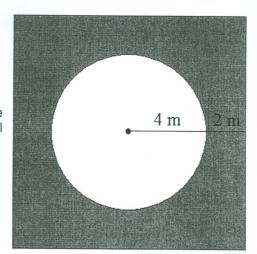
L.33

Name:

QUIZ: The Pond & Slate

The Lepage family is installing a decorative pond in their yard. The pond will be circular and centered in a square section of slate stones.

The Lepages want to know how much money they should budget for the slate stone. If the slate costs \$17.01 per square metre, how much will they be spending?



C2: Reasoning									
	5	4	3	2	1				
cr3: Reasoning									
cr2: Concepts									
cr4: Organization cr5: Justification cr1: Conjecture									



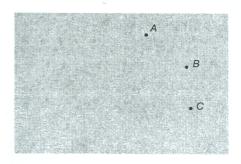


Ripples in the Water!

- 1. Use your compasses to **construct** a circle with:
 - a) a radius of 2 cm; b) a diameter of 5 cm;

c) a circumference of approximately 6.28 cm; d) an area of approximately 28 cm².

- 2. Three cottages, *A,B* and *C,* are built at a summer camp.
 - a) Find the exact location where a lamppost must be installed to give the same intensity of light on all three cottages.
 - b) Give the geometric statement used to solve this problem.
- Use your ruler to find the necessary measurements and calculate (showing the steps of your work):
 - a) the perimeter of the circle at right;
 - b) the area of the disc.





March 18, 2015 lesson 33

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Area of Circle.asf